

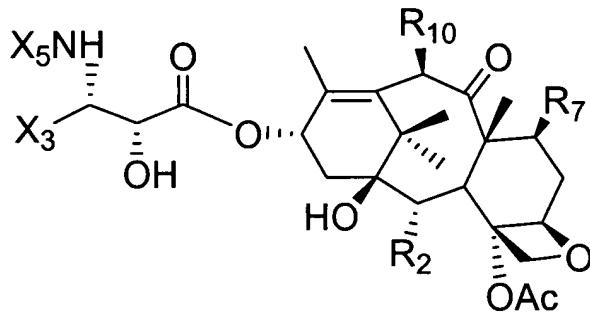
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**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in this application.

**Listing of Claims:**

1. (currently amended) A method of inhibiting tumor growth in a mammal, said method comprising administering a therapeutically effective amount of a composition comprising at least one pharmaceutically acceptable carrier and a taxane having the formula



wherein

$X_3$  is 2-thienyl, 3-thienyl, 2-furyl, 3-furyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, isopropyl, isobut enyl, cyclopropyl, cyclobutyl or cyclopentyl;

$X_5$  is  $-COX_{10}$  and  $X_{10}$  is 2-furyl, 2-thienyl, 3-pyridyl, 4-pyridyl, n-propyl, isobutyl, or butenyl **or isobutenyl** or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is ethyl, n-propyl, isopropyl or isobutyl;

$R_2$  is benzyloxy;

$R_7$  is  $R_{7a}COO^-$ ;

$R_{10}$  is hydroxy; and

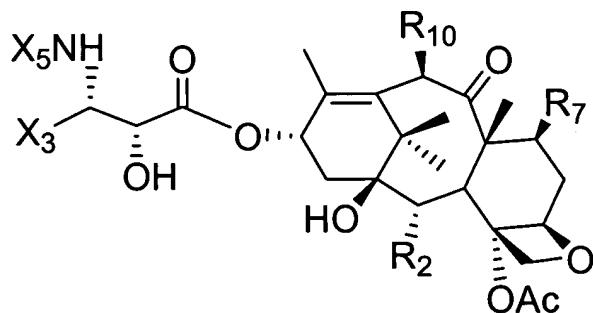
$R_{7a}$  is heterosubstituted methyl.

2. (original) The method of claim 1 wherein  $X_3$  is 2-thienyl or 3-thienyl.

3. (original) The method of claim 1 wherein  $X_3$  is 2-furyl or 3-furyl.

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4. (original) The method of claim 1 wherein R<sub>7a</sub> is acetoxyethyl, methoxymethyl, phenoxyethyl, ethoxymethyl or methylthiomethyl.
5. (original) The method of claim 4 wherein X<sub>3</sub> is 2-furyl or 3-furyl.
6. (original) The method of claim 4 wherein X<sub>3</sub> is 2-thienyl or 3-thienyl.
7. (previously presented) A method of inhibiting tumor growth in a mammal, said method comprising administering a therapeutically effective amount of a composition comprising at least one pharmaceutically acceptable carrier and a taxane having the formula



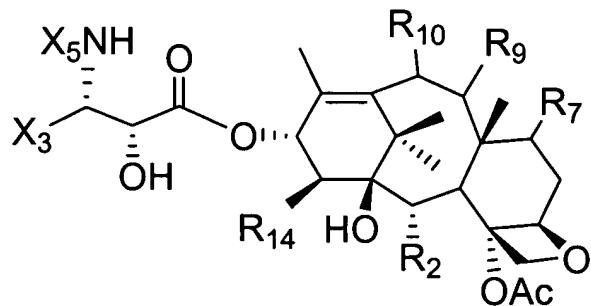
wherein

X<sub>3</sub> is 2-furyl or 2-thienyl;  
X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is t-amyl;  
R<sub>2</sub> is benzyloxy;  
R<sub>7</sub> is R<sub>7a</sub>COO-;  
R<sub>10</sub> is hydroxy; and  
R<sub>7a</sub> is methoxymethyl or acetoxyethyl.

8. (original) The method of claim 7 wherein R<sub>7a</sub> is methoxymethyl.
9. (original) The method of claim 7 wherein X<sub>3</sub> is 2-furyl.
10. (original) The method of claim 7 wherein X<sub>3</sub> is 2-thienyl.

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11. (original) A method for preparing a pharmaceutical composition comprising mixing at least one nonaqueous, pharmaceutically acceptable solvent and a taxane having the formula



wherein

R<sub>2</sub> is acyloxy;

R<sub>7</sub> is heterosubstituted acetate;

R<sub>9</sub> is keto, hydroxy, or acyloxy;

R<sub>10</sub> is hydroxy;

R<sub>14</sub> is hydrido or hydroxy;

X<sub>3</sub> is substituted or unsubstituted alkyl, alkenyl, alkynyl or heterocyclo;

X<sub>5</sub> is -COX<sub>10</sub>, -COOX<sub>10</sub>, or -CONHX<sub>10</sub>;

X<sub>10</sub> is hydrocarbyl, substituted hydrocarbyl, or heterocyclo; and

Ac is acetyl.

12. (original) The method of claim 11 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl or 4-pyridyl, C<sub>1</sub> - C<sub>8</sub> alkyl, C<sub>2</sub> - C<sub>8</sub> alkenyl, or C<sub>2</sub> - C<sub>8</sub> alkynyl.

13. (original) The method of claim 11 wherein R<sub>7</sub> is R<sub>7a</sub>COO- and R<sub>7a</sub> is a heterosubstituted methyl wherein the heteroatom is substituted to form a heterocyclo, alkoxy, alenoxy, alkynoxy, aryloxy, hydroxy, protected hydroxy, oxy, acyloxy, nitro, amino, amido, thiol, ketal, acetal, ester or ether.

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14. (original) The method of claim 11 wherein  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

15. (original) The method of claim 11 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl or 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl,  $R_7$  is  $R_{7a}COO-$  and  $R_{7a}$  is a heterosubstituted methyl wherein the heteroatom is substituted to form a heterocyclo, alkoxy, alkenoxy, alkynoxy, aryloxy, hydroxy, protected hydroxy, oxy, acyloxy, nitro, amino, amido, thiol, ketal, acetal, ester or ether.

16. (original) The method of claim 11 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl or 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl,  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

17. (original) The method of claim 11 wherein  $R_7$  is  $R_{7a}COO-$ ,  $R_{7a}$  is a heterosubstituted methyl wherein the heteroatom is substituted to form a heterocyclo, alkoxy, alkenoxy, alkynoxy, aryloxy, hydroxy, protected hydroxy, oxy, acyloxy, nitro, amino, amido, thiol, ketal, acetal, ester or ether,  $X_5$  is  $-COX_{10}$  and  $X_{10}$  is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl, or  $X_5$  is  $-COOX_{10}$  and  $X_{10}$  is substituted or unsubstituted  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl.

18. (original) The method of claim 11 wherein  $X_3$  is 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl,  $C_1 - C_8$  alkyl,  $C_2 - C_8$  alkenyl, or  $C_2 - C_8$  alkynyl,  $R_7$  is  $R_{7a}COO-$ ,  $R_{7a}$  is a heterosubstituted methyl wherein the heteroatom is substituted to form a heterocyclo, alkoxy, alkenoxy, alkynoxy, aryloxy, hydroxy, protected hydroxy, oxy, acyloxy, nitro, amino, amido, thiol, ketal, acetal, ester or ether,  $X_5$  is  $-COX_{10}$  and  $X_{10}$

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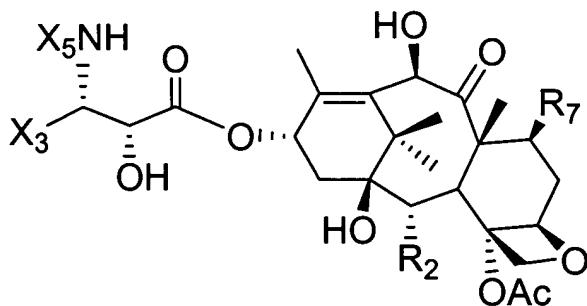
is substituted or unsubstituted phenyl, 2-furyl, 3-furyl, 2-thienyl, 3-thienyl, 2-pyridyl, 3-pyridyl, 4-pyridyl, C<sub>1</sub> - C<sub>8</sub> alkyl, C<sub>2</sub> - C<sub>8</sub> alkenyl, or C<sub>2</sub> - C<sub>8</sub> alkynyl, or X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is substituted or unsubstituted C<sub>1</sub> - C<sub>8</sub> alkyl, C<sub>2</sub> - C<sub>8</sub> alkenyl, or C<sub>2</sub> - C<sub>8</sub> alkynyl.

19. (original) The method of claim 13 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl or 3-thienyl.

20. (original) The method of claim 14 wherein X<sub>3</sub> is 2-furyl, 3-furyl, 2-thienyl or 3-thienyl.

21. (original) The method of claim 19 wherein R<sub>7</sub> is R<sub>7a</sub>COO- and R<sub>7a</sub> is a heterosubstituted methyl wherein the heteroatom is substituted to form an alkoxy or acyloxy.

22. (new) A taxane having the formula



wherein

R<sub>2</sub> is benzyloxy;

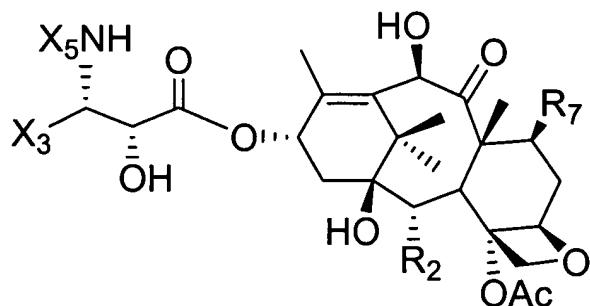
R<sub>7</sub> is R<sub>7a</sub>COO- and R<sub>7a</sub> is acetoxymethyl, methoxymethyl, or phenoxyxymethyl;

X<sub>3</sub> is 2-furyl; and

X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is isobut enyl.

23. (new) A taxane having the formula

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wherein

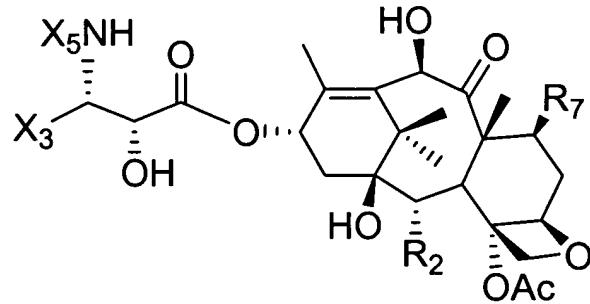
R<sub>2</sub> is benzyloxy;

R<sub>7</sub> is R<sub>7a</sub>COO- and R<sub>7a</sub> is acetoxymethyl or methoxymethyl;

X<sub>3</sub> is 2-furyl; and

X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is t-amyl or t-butyl.

24. (new) A taxane having the formula



wherein

R<sub>2</sub> is benzyloxy;

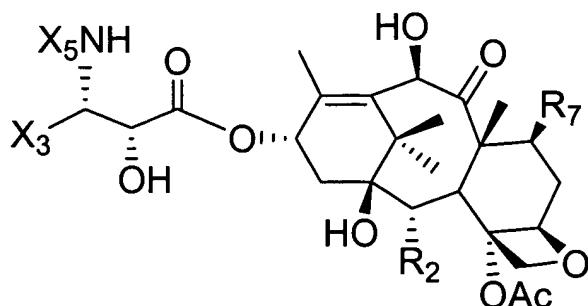
R<sub>7</sub> is R<sub>7a</sub>COO- and R<sub>7a</sub> is phenoxyethyl, ethoxymethyl, or methylthiomethyl;

X<sub>3</sub> is 2-furyl;

X<sub>5</sub> is -COOX<sub>10</sub> and X<sub>10</sub> is t-butyl.

25. (new) A taxane having the formula

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wherein

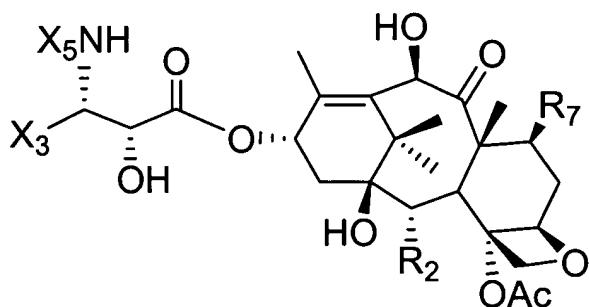
R<sub>2</sub> is benzyloxy;

R<sub>7</sub> is R<sub>7a</sub>COO- and R<sub>7a</sub> is phenyloxymethyl;

X<sub>3</sub> is 2-furyl; and

X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> is propenyl.

26. (new) A taxane having the formula



wherein

R<sub>2</sub> is benzyloxy;

R<sub>7</sub> is R<sub>7a</sub>COO- and R<sub>7a</sub> is methoxymethyl or phenyloxymethyl;

X<sub>3</sub> is 2-furyl; and

X<sub>5</sub> is -COX<sub>10</sub> and X<sub>10</sub> trans-propenyl.